



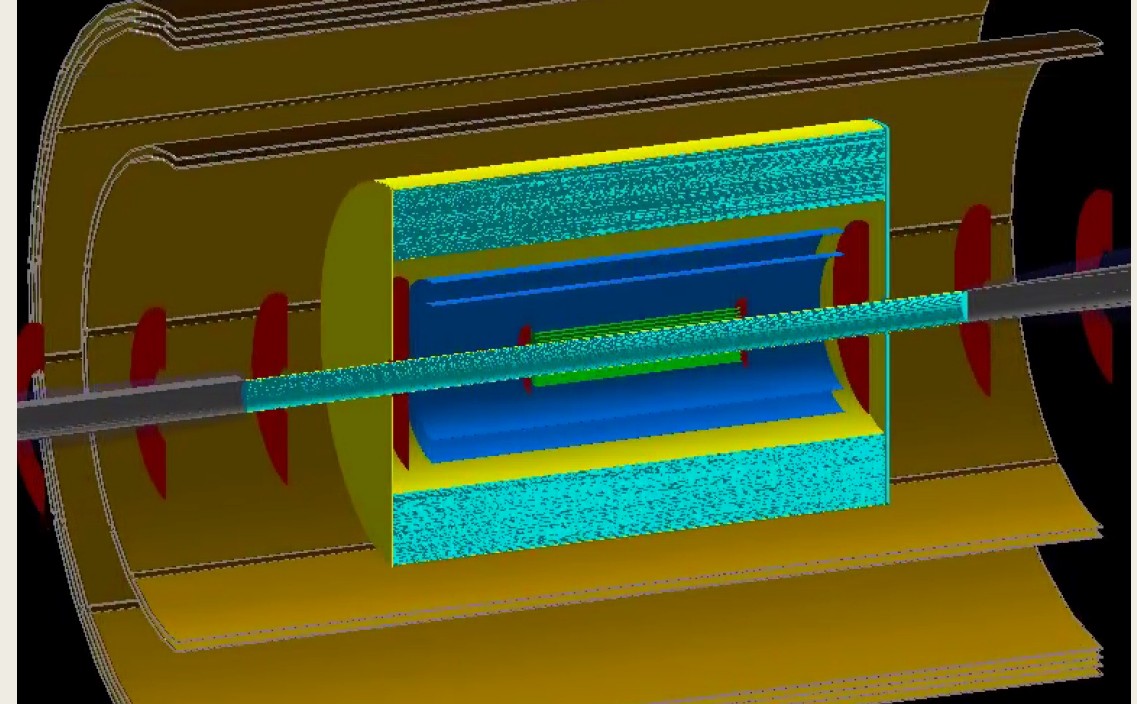
# UPDATES

Nick Lukow  
August 9, 2021  
eRD6 Meeting



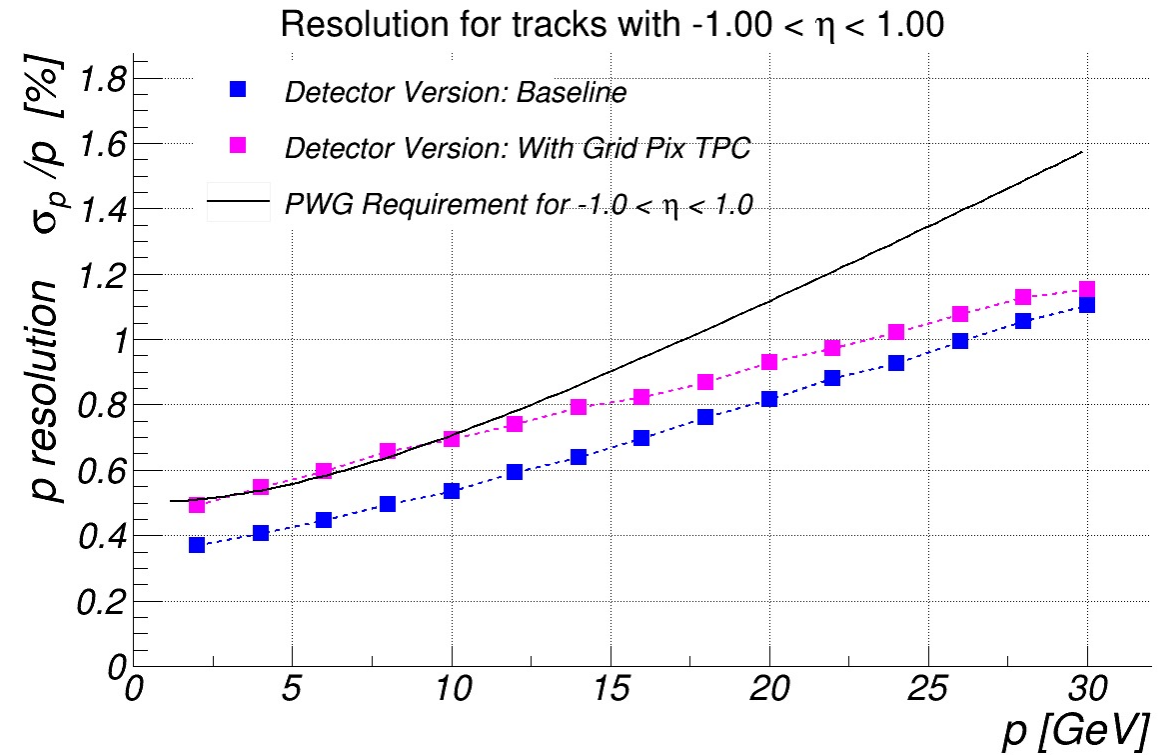
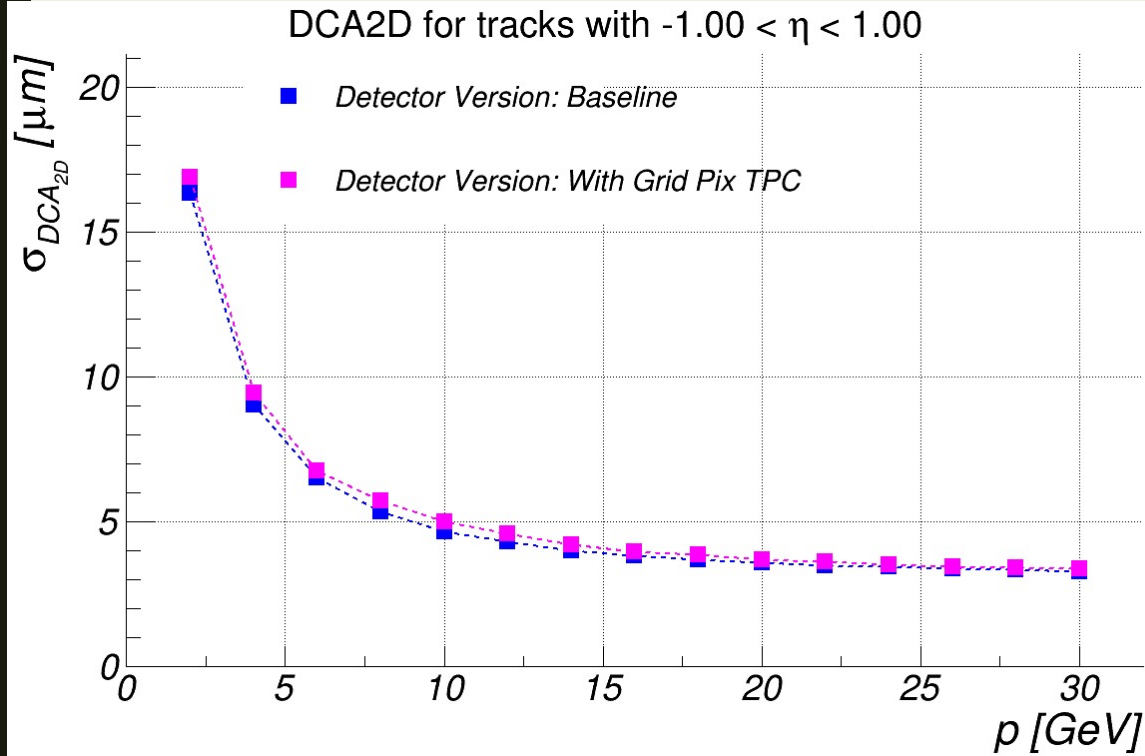
# Addition of GridPix TPC

- Implementation by Matt
- 100x200  $\mu\text{m}$  resolution, 90% efficiency
- 125 gas layers
- 23.5-37.5 cm in radius, 100 cm long
- Sanity Check: removed gas layers and only left material, to see if the material causes the resolution degradation



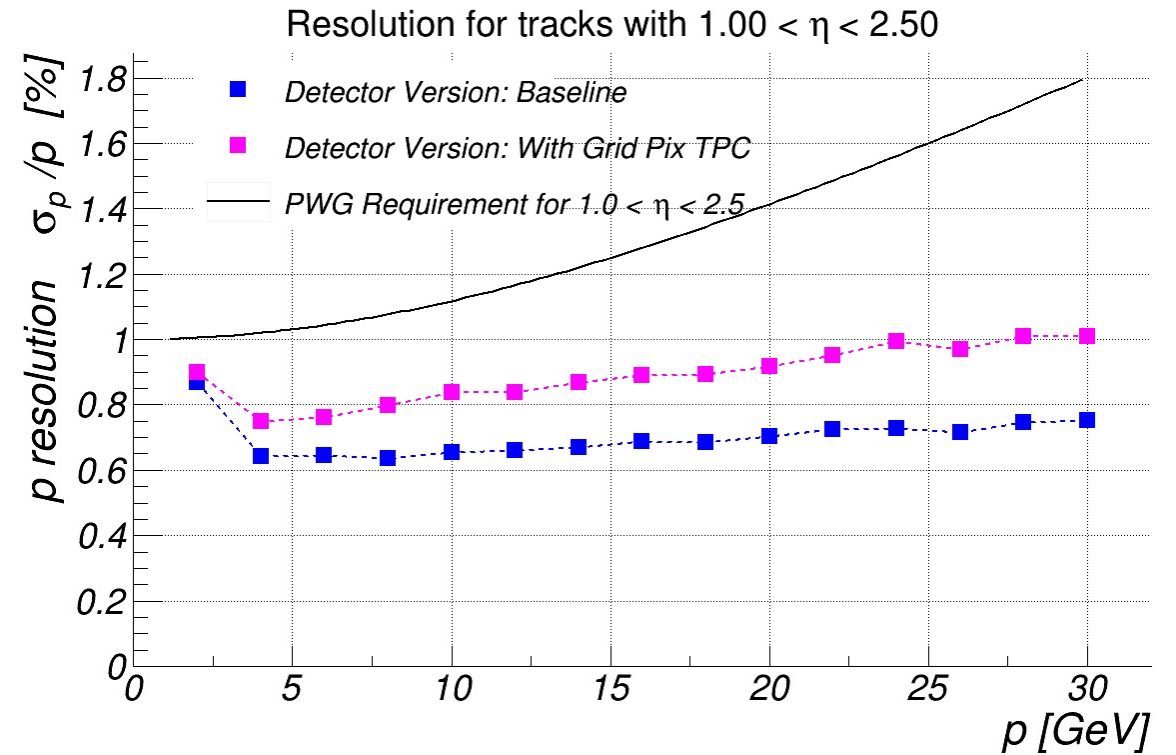
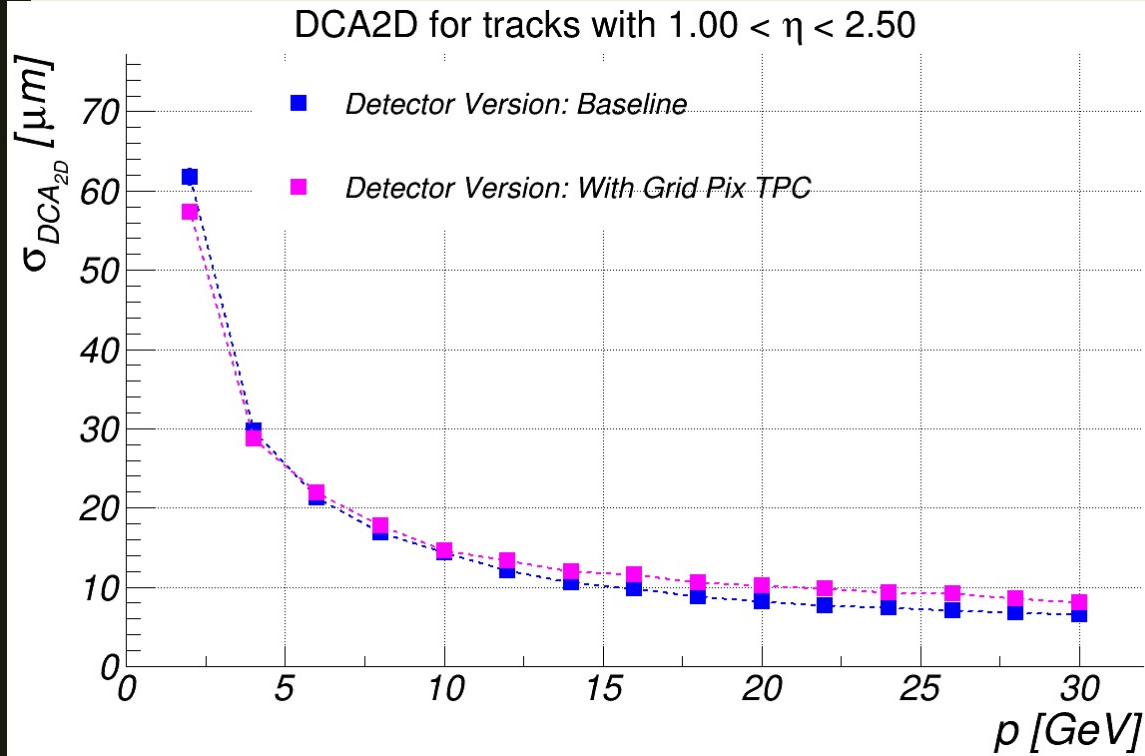
# Grid Pix Study – Central Region

- Worse resolutions throughout



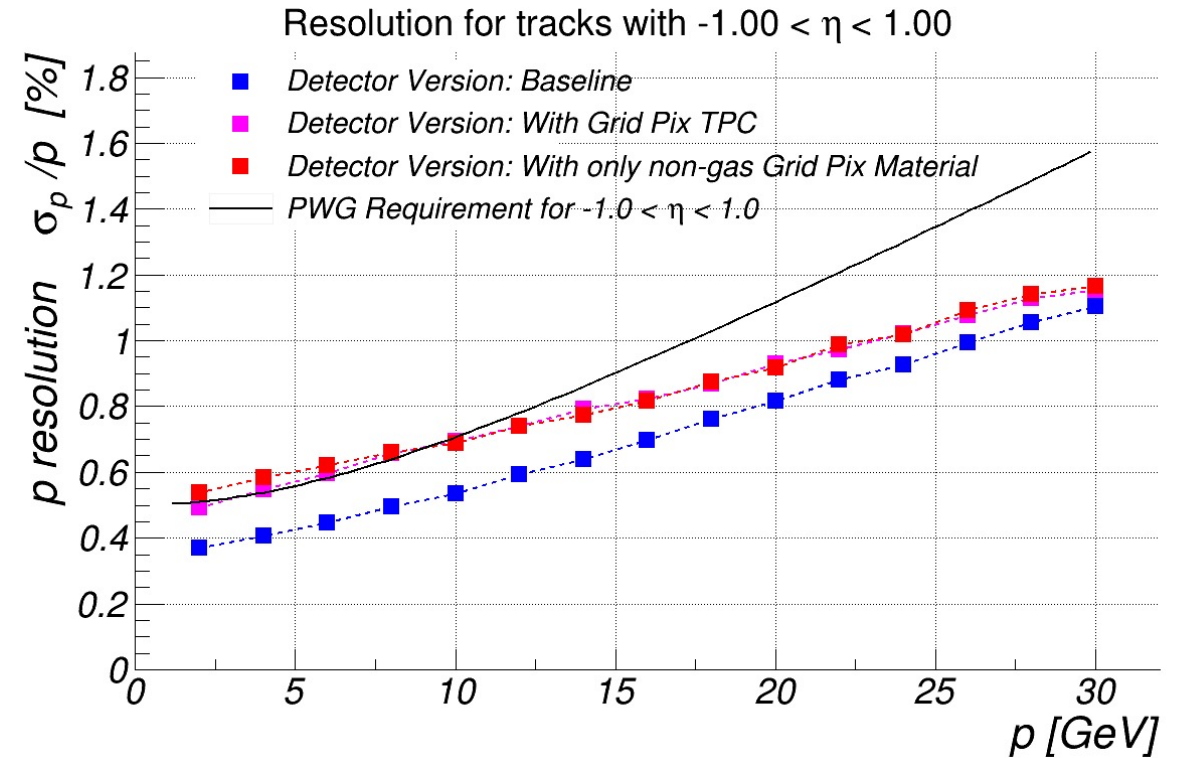
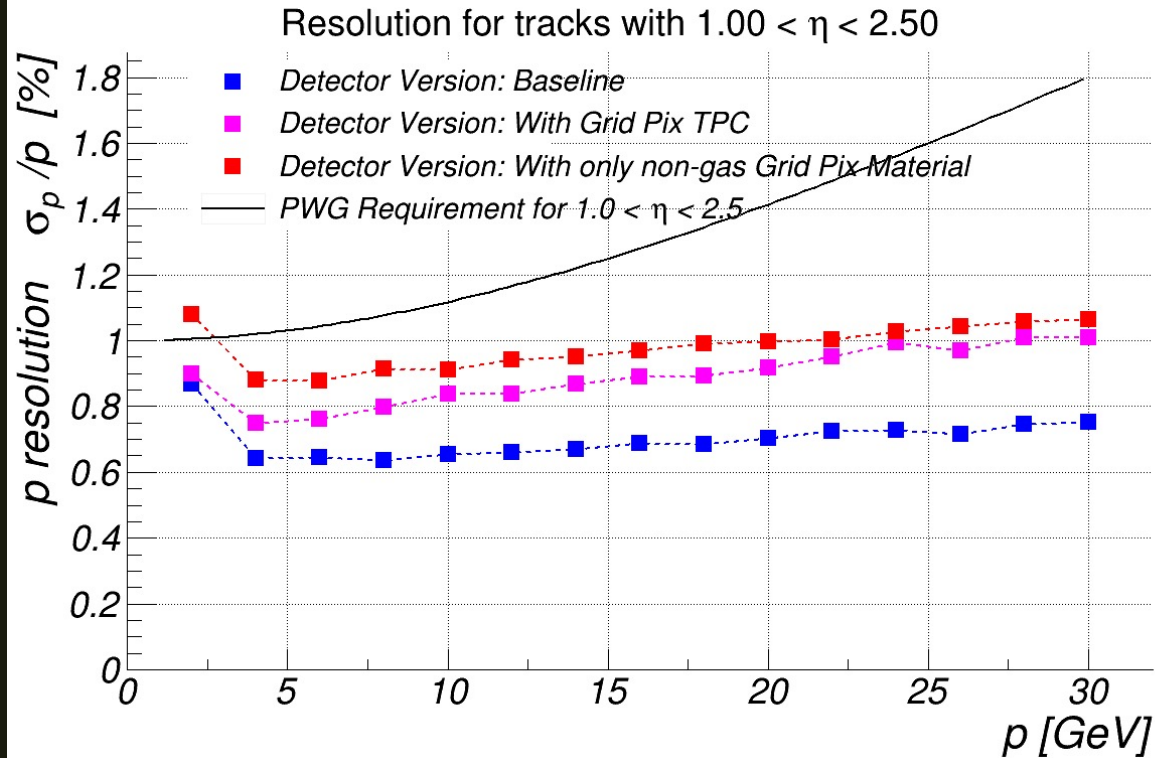
# Grid Pix Study – Forward Region

- Worse resolutions throughout



# Grid Pix Sanity Check

- Worse resolutions throughout, but in the eta region where the additional hits by the TPC provide additional coverage, the impact of the material is mitigated (but still detrimental overall)



# Backup Slides